A Comprehensive Water Conservation Program for South Florida

Deena Reppen, Deputy Executive Director Government & Public Affairs

Chip Merriam, Deputy Executive Director Water Resources

Governing Board Workshop April 9, 2008

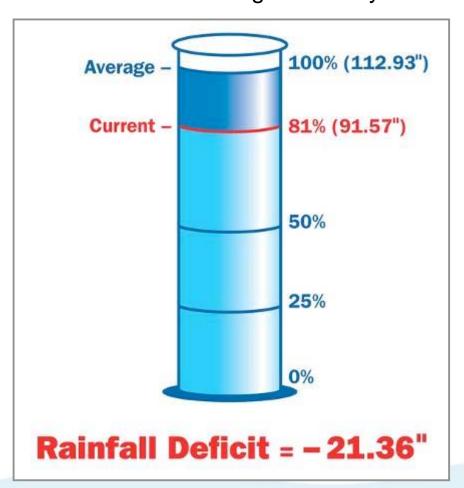
April -Water Conservation Month





Multi-Year Rainfall Deficit

November 2005 through February 2008



Comprehensive Water Conservation Program

Goals

- Create a year-round culture of conservation
- Eliminate wasteful water use
- Promote efficient water use
- Establish partnerships to maximize effectiveness

SUMITION SUMINITIES





Water Conservation Stakeholder Group



Representative water users:

- Local Governments
- Environment
- Agriculture
- Nurseries/Landscapers
- Utilities
- Developers
- Property Owners/HOAs
- Parks and Recreation
- Sports and Leisure
- Tourism
- Small Businesses
- Manufacturing
- Hospitality/Service Industries

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Calendar

sawme ser

- ✓ December 4, 2007: Water Conservation Summit
- ✓ December 17, 2007: Stakeholder Meeting #1
- ✓ January 28, 2008: Stakeholder Meeting #2
- ✓ February 7, 2008: Update to WRAC
- √ February 28, 2008: Stakeholder Meeting #3
- ✓ February 29, 2008: Ten-County Coalition Presentation
- ✓ March 6, 2008: Update to WRAC
- ✓ March 28, 2008: Stakeholder Meeting #4
- ✓ April 3, 2008: Update to WRAC
- ✓ April 9, 2008: Present Draft Water Conservation Program to Governing Board
- May: Final Stakeholder Meeting
- June: Present Final Plan to WRAC & Governing Board

Program Components



- Regulatory Initiatives
- Voluntary & Incentivebased Initiatives
- Education & Marketing Initiatives

Program Implementation

- Strategies and Action Steps for each Program Component
- Cost Effectiveness / Ease of Implementation / Water Savings for each Strategy
- Ten-year Implementation Schedule Immediate, Short, Mid and Long-Term Action Steps

Water Conservation Program

Vision

sawme ser

Create and implement a comprehensive and enduring water conservation program for South Florida. This successful program achieves a measurable reduction in water use, inspires governments, citizens and businesses to value and embrace a conservation ethic and serves as a national model for water conservation.

Regulatory Initiatives

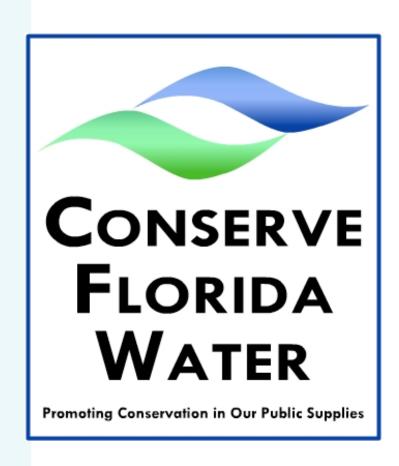
Water Conservation Program – Regulatory Initiatives

Goal

SAWING SER

In partnership with utilities and local governments, adopt and implement goal-based water conservation regulations, local ordinances and utility practices to promote water efficiencies, further advance water management and achieve measurable reductions in public and private water use.

Regulatory Initiatives Strategies: Public Water Supply



- Utility-specific goalbased conservation plans
- Effective water conservation rates
- Retrofit and leakdetection programs

Regulatory Initiatives Strategies: Agricultural Irrigation



Crop-specific irrigation systems

Regulatory Initiatives Strategies: Landscape Irrigation

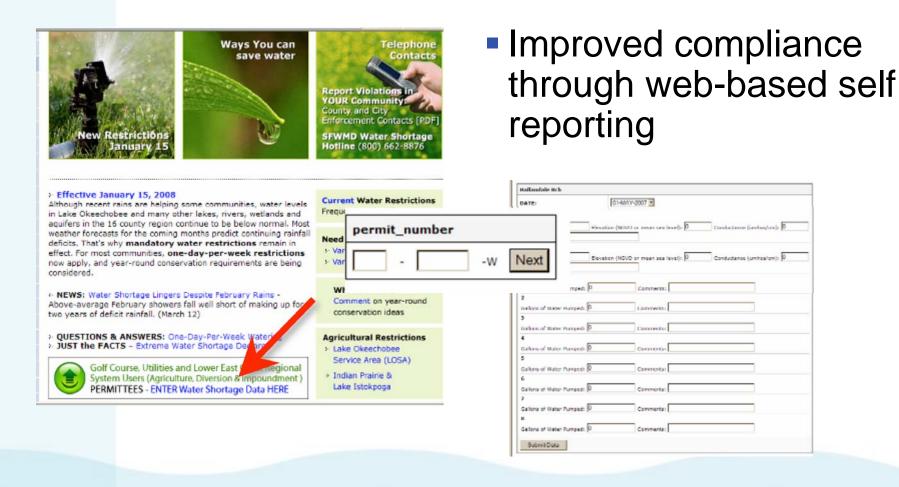


- Consistency in local governments' landscape code ordinances
- Year-round landscape irrigation measures



NATURESCAPE

Regulatory Initiatives Strategies: Industrial, Commercial & Institutional Uses



sawmel-ger

Regulatory Initiatives Strategies: Golf Courses



- Florida Friendly landscape design
- Irrigation technologiesrain and soil moisture sensors/weather station systems
- Improved web-based compliance reporting

Voluntary & Incentive-Based Initiatives

Water Conservation Program – Voluntary & Incentive-Based Initiatives

Goal

sawme ger

Expand voluntary government and industry partnerships and strengthen economic incentives to encourage public and private investments in water conservation. Create and make available to water using sectors incentive programs for water conservation projects and programs.

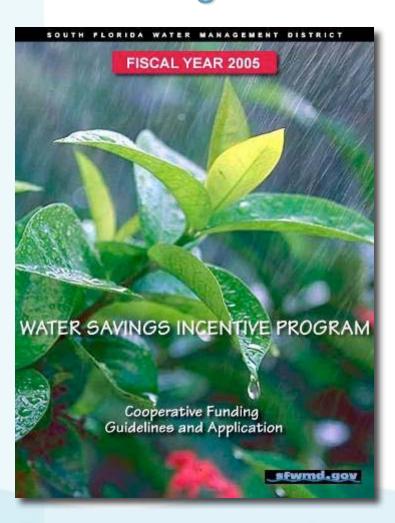
Voluntary & Incentive-Based Initiatives Strategies: Leading by Example



- Reduce water use at District and public facilities
- Support existing and identify new recognition programs
 Florida

Stewardship starts at home.

Voluntary & Incentive-Based Initiatives Strategies: Financial Incentives



- Identify public/private partnership opportunities
- Continued support for:
 - Water Savings Incentive Program
 - Alternative Water Supply
 - Mobile Irrigation Labs

Voluntary & Incentive-Based Initiatives Strategies: Alternative Water Sources



- Encourage the diversification of supply sources
- Assist with implementation and expansion of reclaimed water systems

Voluntary & Incentive-Based Initiatives Strategies: Public Water Supply



- Identify regional conservation opportunities
- Improve coordination and implementation of water conservation plans
- Encourage use of effective technologies:
 - Automatic line flushing devices
 - Automated meter reading devices

Voluntary & Incentive-Based Initiatives Strategies: Agriculture Irrigation



- Enhance availability of mobile irrigation labs
- Promote water efficient irrigation technologies
- Improve methods for measuring water use and estimating demands

Voluntary & Incentive-Based Initiatives Strategies: Landscape Irrigation



- Maximize use of urban mobile irrigation labs
- Explore alternative practices for landscape irrigation



Voluntary & Incentive-Based Initiatives Strategies: Industrial, Commercial & Institutional Uses



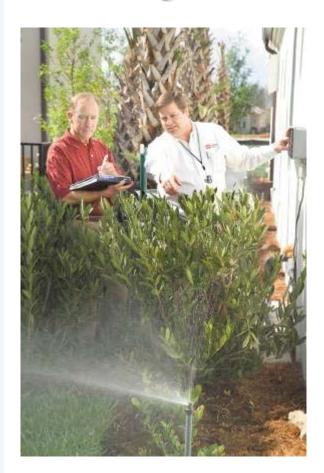
- Implement water auditing program
- Reduce water use for air-conditioning and cooling systems

Voluntary & Incentive-Based Initiatives Strategies: Golf Courses



- Encourage water efficient ground covers
- Promote Florida
 Friendly landscape design

Voluntary & Incentive-Based Initiatives Strategies: New Development



- Encourage installation of high efficiency water saving devices
- Promote Leadership in Environmental Energy and Design (LEED) certification



Voluntary & Incentive-Based Initiatives Strategies: Hospitality



- Assist implementation of water auditing program
- Encourage high efficiency water saving devices

Education & Marketing Initiatives

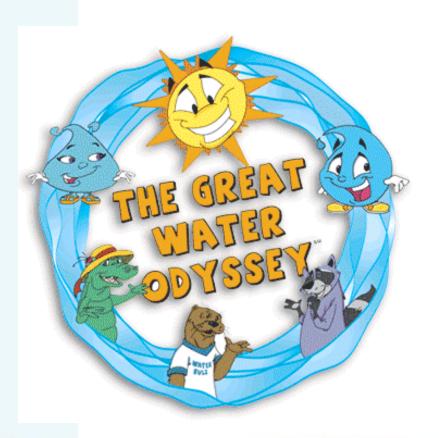
Water Conservation Program – Education & Marketing Initiatives

Goal

sawme ger

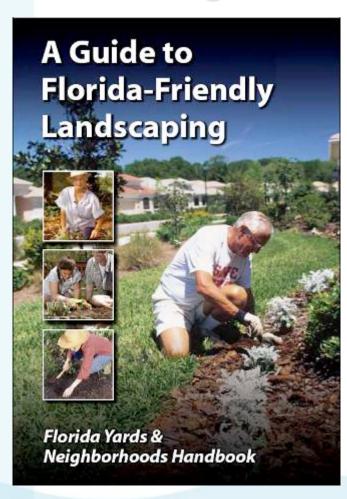
 Collaborate and coordinate with regional partners to educate and inform residents and visitors about their environmental, economic and social responsibility, foster a culture of conservation and position the State of Florida as leader in water conservation.

Education & Marketing Initiatives Strategies: School-based Education



- Build on existing initiatives
- Workshops for educators
- Share classroom resources

Education & Marketing Initiatives Strategies: Public Information



- Build on existing initiatives
- Expand partnerships
- Maximize distribution of public information

Education & Marketing Initiatives Strategies: Public Information



sawmel-ger

Continue development of website -

www.savewaterfl.com

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

www.savewaterfl.com





In the News ►
SFWMD awards
\$400,000 to save water



Tell Us What You Think ► Comment on year-round irrigation limits.

Conservation Tip for August

If you have an automatic sprinkler system, consider installing a rainfall or soil moisture sensor. Rainfall sensors prevent your system from watering in the rain, while soil moisture sensors allow watering only when the soil beneath the surface really needs it.



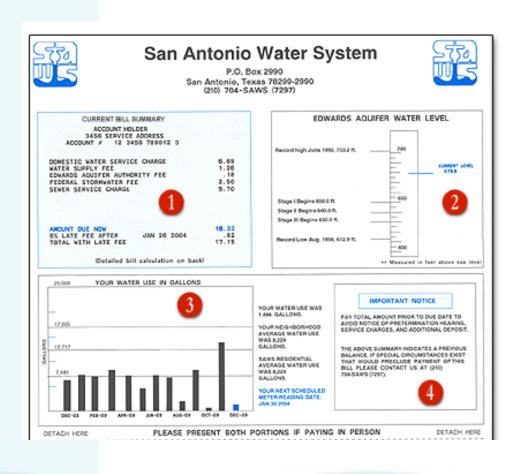








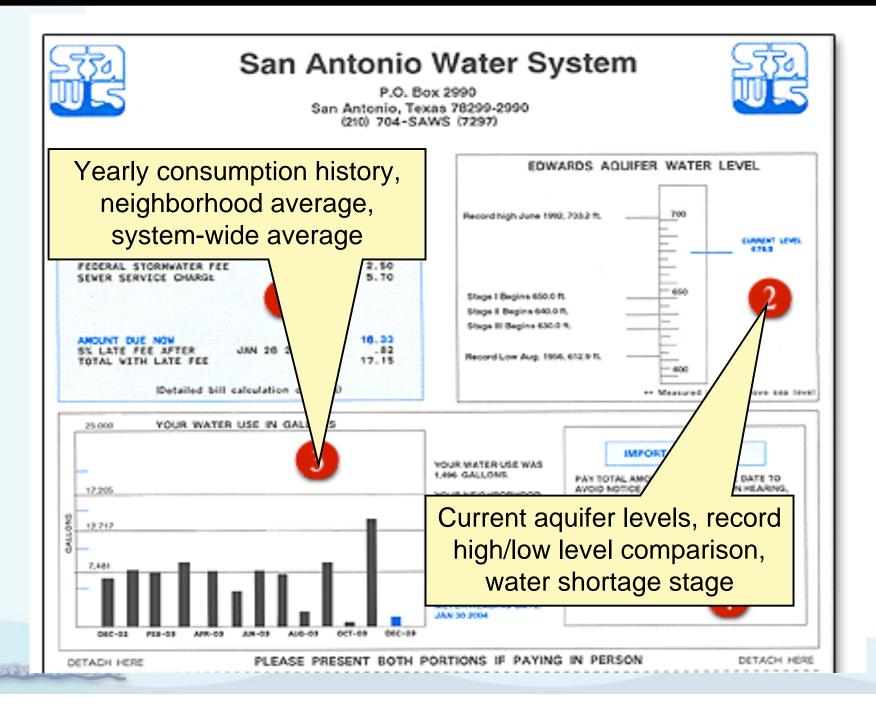
Education & Marketing Initiatives Strategies: Public Information



SAWING SERV

Encourage informative billing

SOUTH FLORIDA WATER MANAGEMENT DISTRICT



Education & Marketing Initiatives Strategies: Professional Development





sawmel-ger

- Offer conservation best practices training and certifications
 - Turf and landscape industries
 - Plumbing professionals
 - General contractors
 - Educators

Education & Marketing Initiatives Strategies: Social Marketing



- Utilize commercial marketing principals
- Provide tools to change behavior



sewme ser

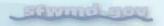
Education & Marketing Initiatives Strategies: Volunteer Activities



- Recruit water conservation ambassadors
- Conduct water academies

Next Steps

- Continue to Prioritize Actions
- Refine Implementation Plan
- Define Success



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

www.savewaterfl.com





In the News ►
SFWMD awards
\$400,000 to save water



Tell Us What You Think ► Comment on year-round irrigation limits.

Conservation Tip for August

If you have an automatic sprinkler system, consider installing a rainfall or soil moisture sensor. Rainfall sensors prevent your system from watering in the rain, while soil moisture sensors allow watering only when the soil beneath the surface really needs it.









